SEQUENCE LISTING

<110> Kazakov, Sergei A.
      Dallas, Anne
      Kuo, Tai-Chih
      Johnston, Brian H.

<120> Polynucleotides Capable of
   Target-Dependent Circularization and Topological Linkage

<130> 367592000500

<140> 10/561,691
<141> 2005-12-21

<150> PCT/US2004/020589
<151> 2004-06-25

<150> US 60/482,653
<151> 2003-06-25

<160> 50

<170> FastSEQ for Windows Version 4.0

<210> 1
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ctggtaacag aggc   74

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acttacgtc   69

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taatacgact cactataggg cagccgtcct cgtccgtatg acgagagaag c   51

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tatgacgagg acggctgagt gttgttgttg ttgttgttgt tgtgc   45

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tatgacgagg acggctgaga cttgttgttg ttgttgttgt tgtgc                45

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<400> 10
gcttctctcg tcatacg                                               17

<210> 11
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<400> 11
taatacgact cactataggg cagccgtc                                   28

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<400> 12
ggtgacacta tgatgcatat gacgaggac                                  29

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<221> misc_feature
<222> 1-5, 10, 13-19, 27-35, 41-48, 54, 56-60
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3

<223> n = A, U, G or C

<221> misc_feature
<222> 6
<223> n = U, C or G

<221> misc_feature
<222> 7, 11, 49
<223> n = U or C

<221> misc_feature
<222> 8, 25
<223> n = A, C or U

<221> misc_feature
<222> 12
<223> n = A or G

<221> misc_feature
<222> (55)...(55)
<223> n = A, C or G

<400> 13
nnnnnnnngn nnnnnnnnca uuanannnnn nnnncaaagn nnnnnnnnga agnnnnnnn   59

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<400> 14
ucggaacagg gaacuucucu ug   22

<210> 15
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<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 15
ccagucaaga gaaguuccu guuccgagcc cuuuuuucc uugucccuug aagagaacug 60
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<210> 16
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<221> misc_feature

4

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augguccauu acauggugcu gaaugcagca cacaaagaga ccagucgaag agágcaguau 120
gccugcuccu gccgacggg                                              139

<210> 17
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<222> (30)...(49)
<223> n = A, G, C or U

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ccgaccaaca acaacaacaa caauaagagn nnnnnnnnnn nnnnnnnnnc aaugguccau 60
uacauggugc ugaaugcagc acacaaagag accagucgaa gagagcagua ugccugcucc 120
ug                                                               122

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<222> (18)...(22)
<223> n = A, C, G or U

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uaugccaggu ccugccgacg gg                                          142

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<220>
<223> Synthetic Construct

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ccgacucugu                                                        10

<210> 20
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5

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<210> 21
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<400> 21
ccgacucuca                                                    10


<210> 22
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<220>
<223> Synthetic Construct

<400> 22
ccgacucaca                                                    10


<210> 23
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 23
ccgacuaaca                                                    10


<210> 24
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 24
ccgaccaaca                                                    10


<210> 25
<211> 143
<212> RNA
<213> Artificial Sequence

<220>
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6

<223> Synthetic Construct

<400> 25
auacugcucc ugccgaacuc ucaacaacaa caacaacaac aacacggaua cagagucgga 60
gacaaugguc cauuacaugg ugcugaaugc agcacacaaa gagaccaguc gaagagagca 120
guaugccugc uccugccgac ggg   143

<210> 26
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<220>
<223> Synthetic Construct

<400> 26
auacugcucc ugccgacucu caacaacaac aacaacaaca acacggauac agagucggag 60
acaauggucc auuacauggu gcugaaugca gcacacaaag agaccagucg aagagagcag 120
uaugccugcu ccug   134

<210> 27
<211> 20
<212> RNA
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<400> 27
ucuccgacuc uguauccguc   20

<210> 28
<211> 122
<212> RNA
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<400> 28
ccgacucuca acaacaacaa caacaacaac acggauacag agucggagac aaugguccau 60
uacauggugc ugaaugcagc acacaaagag accagucgaa gagagcagua ugccugcucc 120
ug   122

<210> 29
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<400> 29
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<210> 30
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7

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ug   122

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gccugcuccu gccgacggg   139

<210> 32
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gcauacugcu ccugccgacu cacaacaaca acaacaacaa cacggauaca gagucggaga 60
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augccugcuc cugccgacgg g   141

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ugccugcucc ugccgacggg   140

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ccugcuccug ccgacggg 138

<210> 35
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cugcuccugc cgacggg 137

<210> 36
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ugcuccugcc gacggg 136

<210> 37
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<400> 37
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guaugccugc uccugucgga ggg 143

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<213> Artificial Sequence

<220>
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guaugccugc uccugucgga ggg 143

9

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cgaacauggu ccauuacaug gugcugaaug cagcacacaa agagaccauc cgaagagagc  120
aguaugccug cuccugucgg aggg                                        144

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<220>
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cgacaauggu ccauuacaug gugcugaaug cagcacacaa agagaccauc cgaagagagc  120
aguaugccug cuccugucgg aggg                                        144

<210> 41
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<220>
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<400> 41
ucuccgacuc uguauccgug                                              20

<210> 42
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<400> 42
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uacauggugc ugaaugcagc acacaaagag accagucgaa gagaccugua ugccugcucc  120
ug                                                                122

<210> 43
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<220>
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<223> Synthetic Construct

<400> 43
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<210> 44
<211> 20
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<400> 44
tctcctacgc tgtatccgtg   20

<210> 45
<211> 20
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tctcctactc tgtagccgtg   20

<210> 46
<211> 20
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<400> 46
tctccgactc ggtatccgtg   20

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 47
tctccgactc tttatccgtg   20

<210> 48
<211> 20
<212> DNA
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<223> Synthetic Construct

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tctccgactc gttatccgtg                                                    20


<210> 49
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<400> 49
tctccgactc cttgttcgtg                                                    20


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uacauggugc ugaaugcagc acacaaagag accagucgaa gagagcagua ugccugcucc 120
ug                                                                      122
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